

Site: Oroogo Duerwig
ID: MON930686221
Date: 8/26/1986
LV

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AUG 27 1986

SUBJECT: Jasper Mining District  
 FROM: Shelley Brodie *mb*  
 TO: Scott Parrish and Trudy Fancher

Site Area:

I have taken the DGLS maps, had them reduced and made into overlays. The tracing paper on top of the bottom sheet was used to define the site area. As you can see, my outline is similar to Glenn's (Glenn Curtis - Scorer). I have provided tracing paper if you would like to outline the area. As you place each overlay on top of the previous one, I think it will be easier to see the area of concentrated mining activity.

Sample Points:

Reference #1: Effects of Abandoned Lead and Zinc Mines and Tailings Piles on Water Quality in Joplin Area, Missouri

Pg. 3 The map shows the site area superimposed on the Jim Barks (USGS) study area. All sample points are marked in red. Water samples in mine shafts are included because the mines were finished in the same alluvial aquifer (p.5).

Pg. 37, 38 These are the analytical results highlighted for easy reference.

Pg. 37, 38 Repeat of pages 37 and 38 with no highlighting. These are included in case your copier changes highlighted areas into gray areas. This is 1976 data.

Reference #8: Assessment of Water Resources in Lead-Zinc Mined Areas in Cherokee County, Kansas and Adjacent Areas (This is a new reference, please add to bibliography.)

P. 4 Site boundaries are superimposed on to Tim Spruill's (USGS) study area. This shows the similarity between site boundaries drawn by Glenn and the mined areas depicted by USGS.

P. 10 The red border shows the western edge of the site boundary. Map numbers 23, 24, 28, 29 and 30 are locations of mine water samples. As you can see, these locations are basically right on state line, adjacent to Jasper site boundary. This is 1981 and 1982 data.

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P. 14

Geologic section from near Treece, Kansas, to Joplin, Missouri. Glenn has inserted the location of the state line. This shows that the geological conditions at the Jasper site are very similar to those at Cherokee County, Kansas.

Thus far, you have 1976 data, 1981 and 1982 data. The assessment done by Tim Spruill (USGS) for Cherokee County and adjacent areas also uses historical data that is almost 20 years old (telephone communication). Data that spans 20 years and shows similar results indicates that the contamination is still present.

#### Current Conditions:

Glenn contacted the following people who are knowledgeable of the current conditions at Jasper County.

Jim Barks - Chief of Hydrologic Studies Section, USGS  
Daniel Stewart - Mining Engineer/Mining Geologist  
Tracey McCracken - Environmental Specialist, MDNR

The attached records of communication provide documentation that conditions at Jasper County have remained relatively the same for over 20 years. Some tailings piles have been removed, but numerous others exist and mine shafts, pits and previously mined areas remain relatively unchanged.

#### Well Logs:

Glenn contacted the Missouri Geological Survey for water analyses on wells in the shallow aquifer. The attached list includes some wells outside the three-mile radius, but none of the wells have analytical results.

Attachments